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PATENT COOPERATION TREATY



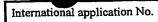
PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	<u> </u>	<u> </u>						
Applicant's or agent's file reference P800228/WO/1	FOR FURTHER ACT	ION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/DE2003/003088	17 September 2003	(17.09.2003)	20 September 2002 (20.09.2002)					
International Patent Classification (IPC) or r B05B 7/00	national classification and I	PC						
Applicant	DAIMLERCHR	YSLER AG						
This report is the international prelication Authority under Article 35 and transport in the second se	iminary examination report asmitted to the applicant ac	, established by this cording to Article 3	s International Preliminary Examining 6.					
2. This REPORT consists of a total of		ncluding this cover	sheet.					
This report is also accompanied by								
a. (sent to the applicant an	d to the International Bure	au) a total of	sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	indicated in the Supplement	ing a sequence list	type and number of electronic carrier(s)) ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the					
4. This report contains indications re	clating to the following iten	ns:						
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establi	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
1	ty of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1 —								
Box No. VII Certain def	ects in the international app	olication						
<u> </u>	The second of the States							
Date of submission of the demand		Date of completion	on of this report					
02 April 2004 (02.0	4.2004)	10	November 2004 (10.11.2004)					
Name and mailing address of the IPEA/I	ΞP	Authorized office	т					
Facsimile No.		Telephone No.						

Translation



PCT/DE2003/003088

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

x No. I	Basis o	of the report
otherwise	indicated	language, this report is based on the international application in the language in which it was filed, unless I under this item.
The wh	is report iich is lar	is based on translations from the original language into the following language, nguage of a translation furnished for the purpose of:
	intern	ational search (under Rules 12.3 and 23.1(b))
F	nublic	cation of the international application (under Rule 12.4)
Ī	intern	ational preliminary examination (under Rules 55.2 and/or 55.3)
	_	
furnished and are n	l to the re not annex	ne elements of the international application, this report is based on (replacement sheets which have been ecciving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" seed to this report):
		tional application as originally filed/furnished
∑ the	e descript	tion: 1-12, as originally filed/furnished
-	ges	received by this Authority on
_	iges*	received by this Authority on
	iges*	
∑ th	e claims:	an emissionally filed/furnished
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		e listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing. Idments have resulted in the cancellation of:
- بـــا.د ا		description, pages
1	二	
İ		claims, Nos.
		drawings, sheets/figs
		e sequence listing (specify):
	any	y table(s) related to sequence listing (specify):
	made, si (Rule 70 the	ort has been established as if (some of) the amendments annexed to this report and listed below had not been note they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box .2(c)). e description, pages



International application No. PCT/DE 03/03088

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement									
	Novelty (N)	Claims			3,	4,	6-13	3		YES
		Claims	1,	2,	5,	9,	10,	12,	13	NO
	Inventive step (IS)	Claims			З,	4,	6-13	3		YES
		Claims								NO
	Industrial applicability (IA)	Claims		1-13			YES			
		Claims								NO

2. Citations and explanations

Novelty, inventive step and industrial applicability

Claim 1

- 1. US-A-2 749 176 (D1) discloses (see column 2, line 13 to column 4, line 35 and figures 1 and 2) an electric arc burner for spraying an electric arc, comprising at least two burner tubes 56, 57 for supplying electrodes 24, 25 in the form of wires which are guided towards the surface of an object to be coated through the burner tube 56, 57 by a supply device comprising numerous rotatably mounted guiding and/or sliding elements 37, 38, 39. The supply device which comprises the guiding and/or sliding elements deforms the wire 24, 25 in an elastic or plastic area and is integrated in the burner tube 56, 57 or received therein, and the sliding elements are designed as rollers 37, 38, 39.
- 2. The subject matter of claim 1 is therefore not novel within the meaning of PCT Article 33(2).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Claims 2, 5, 9, 10, 12 and 13

- 1. Document D1 (loc. cit.) also discloses an electric arc wire burner as per claim 1, in which:
 - the burner is formed of three combinable components 46, 47, 56, and the supply device with its sliding elements 37, 38, 39 is integrated into the burner in the area of at least one sectional plane of two combinable parts 46, 56;
 - the deflection device comprises numerous spaced deflecting rollers 37, 38, 39 arranged one behind the other which co-operate with at least one deflecting roller 37, 38, 39 of equal or greater diameter which, together with the numerous deflecting rollers 37, 38, 39, forms a guide path for receiving the wire 24, 25;
 - the deflecting rollers comprise a guide groove for guiding the wire 24, 25, which is arranged concentrically with the axis;
 - numerous deflecting rollers 37 arranged one behind the other in a first series and, at a distance therefrom, in a second series are provided for guiding the wire 24, 25; and
 - at least three deflecting rollers 37 are provided, two of which are arranged one behind the other.
- 4. The subjects defined by claims 2, 5, 9, 10, 12 and 13, which are dependent on claim 1, are therefore not novel within the meaning of PCT Article 33(2).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Claim 3

- 5. The invention defined in claim 3 complies with the requirements of PCT Article 33(2) to (4) with regard to novelty, inventive step and industrial applicability.
- 6. Since none of the documents cited in the search report or acknowledged in the introductory portion of the description discloses all the features of claim 3, the subject matter of claim 3 is novel.
- 7. A person skilled in the art is not prompted by the search report citations to design the burner tube of an electric arc wire burner as per D1 in the manner defined in claim 3. The measure whereby the burner or the supply tube has an approximately circular cross-section, viewed from the front, and the central segment of the burner or of the supply tube is approximately wedge-shaped results from a step which is not a logical development of the cited prior art. Consequently, the electric arc wire burner as per claim 3 involves an inventive step.

Claims 6 to 13

- 8. So far as dependent claims 6 to 13 are dependent on claim 3, they contain advantageous and non-obvious developments of the electric arc wire burner as per claim 3 and therefore likewise comply with the requirements of PCT Article 33(2) and (3) with regard to novelty and inventive step.
- 9. The electric arc wire burner defined by claims 1 to 13 can be used and made and is therefore also considered to be industrially applicable.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internal application No.

PCT/DE 03/03088

Certain defects in the international application

10. The description does not cite document D1 as the closest prior art (PCT Rule 5.1(a)(ii)).